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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------|----------------------|---------------------|------------------|
| 09/932,216 | 08/17/2001 | Wenhua Yang | 2550/111 | 4914 |
| 2101 | 7590 03/07/2006 | | EXAMINER | |
| BROMBERG & SUNSTEIN LLP | | | CUNNINGHAM, TERRY D | |
| 125 SUMMER STREET BOSTON, MA 02110-1618 | | | ART UNIT | PAPER NUMBER |
| 200000, 000 | | | 2816 | |

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | 11/1 |
|---|---|---|----------|
| | Application No. | Applicant(s) | |
| | 09/932,216 | YANG, WENHUA | |
| Office Action Summary | Examiner | Art Unit | |
| | Terry D. Cunningham | 2816 | |
| The MAILING DATE of this communication Period for Reply | appears on the cover sheet with | h the correspondence address | 5 |
| A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and if No period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b). | DN. R 1.136(a). In no event, however, may a rej n. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA | ply be timely filed (30) days will be considered timely. HS from the mailing date of this commun NDONED (35 U.S.C. § 133). | ication. |
| Status | | | |
| 1) Responsive to communication(s) filed on 1 | 5 January 2006 | | |
| | This action is non-final. | | |
| 3) Since this application is in condition for allo | | rs, prosecution as to the mer | its is |
| closed in accordance with the practice und | | | |
| Disposition of Claims | | | |
| 4)⊠ Claim(s) <u>1-3,5-15,18,20-29 and 32-37</u> is/a | re pending in the application | | |
| 4a) Of the above claim(s) <u>21-28</u> is/are with | • • • | | |
| 5) Claim(s) is/are allowed. | | | |
| 6) Claim(s) <u>1-3,5-15,18,20,29 and 32-37</u> is/ar | e rejected. | | |
| 7) Claim(s) is/are objected to. | • | | • |
| 8) Claim(s) are subject to restriction ar | nd/or election requirement. | | |
| Application Papers | | | |
| 9) The specification is objected to by the Exan | niner | | |
| 10)⊠ The drawing(s) filed on <u>04 October 2001</u> is | | jected to by the Evaminer | |
| Applicant may not request that any objection to | | | |
| Replacement drawing sheet(s) including the co | -,, | ` ' | 121/4\ |
| 11) The oath or declaration is objected to by the | | _ | |
| Priority under 35 U.S.C. § 119 | | | |
| <u> </u> | nian naiorih: undos 25 H.C.C. C | 440(=) (=) == (5) | |
| 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International Bu | nents have been received. nents have been received in Ap priority documents have been re | plication No | e |
| * See the attached detailed Office action for a | , | eceived. | |
| Attachment(s) | _ | | |
| 1) Notice of References Cited (PTO-892) | | mmary (PTO-413) Mail Date | |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date | · | /Mail Date ormal Patent Application (PTO-152) | |

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DETAILED ACTION

Summary of changes in this action

1. All the claims are now rejection under 35 U.S.C. § 103, responsive to the amendment.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spanoche (USPN 6,538,491) in view of Foss et al. (USPN 5,828,620). The above-discussed circuit to Spanoche discloses a circuit similar to that claimed, but does not disclose any details regarding the charge pump 623. The reference to Foss et al. discloses, in Fig. 3, a charge pump circuit having complementary transistors. Therefore, it would be more than reasonable to consider any of the transistors to be "complementary" since each is complementary to another transistor. The reference to Foss et al. discloses that the circuit has the advantage of eliminating drift. Therefore, it would have been obvious for one skilled in the art to use the specific charge pump circuit in Fig. 3 of Foss et al. for the broad charge pump of Spanoche to obtain the expected advantage of eliminating drift in the combination.

Examiner has considered Applicant's remarks and has not found them to be persuasive. While Examiner agrees that the arrangement on page 9 of the remarks is, in a broad sense, a "complementary switch", the term "complementary switch" is in no way limited to being such

only such an arrangement. The more commonly used term for the arrangement on page 9 would be a "transmission gate". However, the broadest reasonable interpretation of a "complementary switch" would be a switching circuit having a complementary arrangement. Since the circuit of Fig. 3 of Foss et al. has complementary transistors (e.g., 25 and 26), it is seen that such can reasonably be considered to be a "complementary switch".

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC March 2, 2006 Art Unit 2816 Terry D. Cunningham Primary Examiner

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